

In the claims:

1 1. (Unchanged) A storage medium having stored therein a plurality of programming
2 instructions executable by a processor, wherein when executed, the programming instructions
3 implement a multi-media call application that effectuate quality of service (QOS) guaranty
4 for a packet based multi-media call (CALL) through call associated individual media stream
5 bandwidth control.

1 2. (Unchanged) The storage medium as set forth in Claim 1, wherein the programming
2 instructions determine if a sub-net bandwidth manager (SBM) that manages network
3 bandwidth is connected to a local area network (LAN) through which the CALL is
4 conducted, and if the SBM is connected to the LAN, register the CALL with the SBM and
5 reserve with the SBM bandwidth for subsequent allocation to media streams of the CALL.

1 3. (Unchanged) The storage medium as set forth in Claim 2, wherein the programming
2 instructions make the determination, registration and bandwidth reservation for subsequent
3 allocation to media streams of the CALL as an integral part of establishing a connection for
4 the CALL.

1 4. (Unchanged) The storage medium as set forth in Claim 2, wherein the programming
2 instructions further subsequently cause the SBM to allocate the reserved bandwidth for the
3 CALL to individual media streams of the CALL.

1 5. (Unchanged) The storage medium as set forth in Claim 4, wherein the programming
2 instructions invoke a bandwidth reservation service to request the SBM to allocate the
3 reserved bandwidth for the CALL to individual ones of the media streams of the CALL,
4 providing call level information to the bandwidth reservation service to enable the bandwidth
5 reservation service to include the call level information in the requests for the SBM.

1 6. (Unchanged) The storage medium as set forth in Claim 5, wherein the programming
2 instructions invoke the bandwidth reservation service to request the SBM to allocate a
3 portion of the reserved bandwidth for the CALL to an individual media stream of the CALL
4 while establishing an individual channel for the individual media stream during the CALL.

1 7. (Unchanged) The storage medium as set forth in Claim 1, wherein the CALL is an
2 ITU-T H.323 compatible video conference call.

1 8. (Unchanged) The storage medium as set forth in Claim 7, wherein the programming
2 instructions further determine if a call level admission control gatekeeper is connected to a
3 local area network (LAN) through which the CALL is to be conducted, and if the call level
4 admission control gatekeeper is connected to the LAN, register the CALL with the call level
5 admission control gatekeeper, the registration being made in a manner that causes the call
6 level admission control gatekeeper to determine whether to admit the CALL into the LAN
7 without taking into consideration bandwidth requirement of the CALL.

1 9. (Unchanged) The storage medium as set forth in Claim 8, wherein the programming
2 instructions make the determination and conditional registration as an integral part of
3 establishing a connection for the CALL.

1 10. (Unchanged) A storage medium having stored therein a plurality of programming
2 instructions executable by a processor, wherein when executed, the programming instructions
3 implementing a bandwidth reservation service that requests a sub-net bandwidth manager
4 (SBM) to allocate a portion of reserved bandwidth for a packet based multi-media call
5 (CALL) to an individual media stream of the CALL, providing the SBM with call level
6 information to allow the SBM to associate the individual media stream of the CALL with the
7 reserved bandwidth of the CALL, the SBM managing network bandwidth of a local area
8 network (LAN) through which the CALL is conducted.

1 11. (Unchanged) The storage medium as set forth in Claim 10, wherein the
2 programming instructions request the SBM to allocate a portion the reserved bandwidth of
3 the CALL to the individual media stream of the CALL while establishing an individual
4 channel for the individual media stream during the CALL.

1 12. (Unchanged) The storage medium as set forth in Claim 10, wherein the
2 programming instructions are integral part of an operating system.

1 13. (Unchanged) The storage medium as set forth in Claim 10, wherein the CALL is an
2 ITU-T H.323 compatible video conference call.

1 14. (Unchanged) A method comprising:

2 (a) a multi-media call application first reserving bandwidth for media streams
3 of a packet based multi-media call (CALL) at a call level with a sub-net bandwidth manager
4 (SBM) that manages network bandwidth of a local area network (LAN) through which the
5 CALL is to be conducted; and

6 (b) the multi-media call application subsequently causing the SBM to allocate the
7 reserved bandwidth for the CALL to individual media streams of the CALL, causing call
8 level information to be provided to the SBM to enable the SBM to associate the individual
9 media streams of the CALL with the reserved bandwidth of the CALL.

1 15. (Unchanged) The method as set forth in Claim 14, wherein (a) is performed as an
2 integral part of the multi-media call application establishing a connection for the CALL.

1 16. (Unchanged) The method as set forth in Claim 14, wherein (b) comprises the multi-
2 media call application invoking a bandwidth reservation service to request the SBM to
3 allocate the reserved bandwidth for the CALL to the individual media streams of the CALL,
4 providing the bandwidth reservation service with call level information for inclusion in the

5 requests to enable the SBM to associate the individual media streams of the CALL with the
6 CALL.

1 17. (Unchanged) The method as set forth in Claim 16, wherein (b) is performed on a per
2 individual media stream basis as an integral part of establishing an individual channel for the
3 individual media stream.

1 18. (Unchanged) The method as set forth in Claim 14, wherein the method further
2 comprises (c) the multi-media call application determining if a call level admission control
3 gatekeeper is connected to the LAN while establishing connection for the CALL.

1 19. (Unchanged) The method as set forth in Claim 18, wherein if the call level
2 admission control gatekeeper is connected to the LAN, (c) further comprises the multi-media
3 application registering the CALL with the call level admission control gatekeeper in a
4 manner that causes the gatekeeper to determine whether to admit the CALL into the LAN
5 without taking into consideration bandwidth requirement of the CALL.

1 20. (Unchanged) An apparatus comprising:
2 a storage medium having stored therein a plurality of programming instructions
3 implementing a multi-media call application that effectuates quality of service (QOS)
4 guaranty for a packet based multi-media call (CALL) using call associated individual media
5 stream bandwidth control; and
6 a processor coupled to the storage medium that operates to execute the programming
7 instructions.

1 21. (Unchanged) The apparatus as set forth in Claim 20, wherein the programming
2 instructions determine if a sub-net bandwidth manager (SBM) that manages network
3 bandwidth is connected to a local area network (LAN) through which the CALL is

4 conducted, and if the SBM is connected to the LAN, register the CALL with the SBM and
5 reserve with the SBM bandwidth for subsequent allocation to media streams of the CALL.

1 22. (Unchanged) The apparatus as set forth in Claim 21, wherein the programming
2 instructions make the determination, registration and bandwidth reservation for subsequent
3 allocation to media streams of the CALL as an integral part of establishing a connection for
4 the CALL.

1 23. (Unchanged) The apparatus as set forth in Claim 21, wherein the programming
2 instructions further subsequently cause the SBM to allocate the reserved bandwidth for the
3 CALL to individual media streams of the CALL.

1 24. (Unchanged) The apparatus as set forth in Claim 23, wherein the programming
2 instructions invoke a bandwidth reservation service to request the SBM to allocate the
3 reserved bandwidth for the CALL to individual ones of the media streams of the CALL,
4 providing call level information to the bandwidth reservation service to enable the bandwidth
5 reservation service to include the call level information in the requests for the SBM.

1 25. (Unchanged) The apparatus as set forth in Claim 24, wherein the programming
2 instructions invoke the bandwidth reservation service to request the SBM to allocate a
3 portion of the reserved bandwidth for the CALL to an individual media stream of the CALL
4 while establishing an individual channel for the individual media stream during the CALL.

1 26. (Unchanged) An apparatus comprising:
2 a storage medium having stored therein a plurality of programming instructions
3 implementing a bandwidth reservation service that requests a sub-net bandwidth manager
4 (SBM) to allocate a portion of reserved bandwidth for a packet based multi-media call
5 (CALL) to an individual media stream of the CALL, providing the SBM with call level
6 information to allow the SBM to associate the individual media stream of the CALL with the

7 reserved bandwidth of the CALL, the SBM managing network bandwidth of a local area
8 network (LAN) through which the CALL is conducted; and
9 a processor coupled to the storage medium that operates to execute the programming
10 instructions.

1 27. (Unchanged) The apparatus as set forth in Claim 26, wherein the programming
2 instructions request the SBM to allocate a portion the reserved bandwidth of the CALL to
3 the individual media stream of the CALL while establishing an individual channel for the
4 individual media stream during the CALL.

1 28. (Unchanged) The apparatus as set forth in Claim 26, wherein the programming
2 instructions are integral part of an operating system.

1 29. (Unchanged) A network comprising:
2 a first client computer;
3 a medium coupled to the first client; and
4 a second client computer, coupled to the medium, that effectuates quality of service
5 (QOS) guaranty for a packet based multi-media call (CALL) to the first client computer
6 through call associated individual media stream bandwidth control.

1 30. (Unchanged) The network as set forth in Claim 29, further comprising:
2 a subnet bandwidth manager (SBM), coupled to the medium, that manages the
3 bandwidth of the network.

1 31. (Unchanged) The network as set forth in Claim 30, wherein the second client
2 computer comprises:
3 a multi-media application that effectuates the QOS guaranty; and
4 a network bandwidth reservation service that requests the SBM to allocate a portion
5 of reserved bandwidth for the CALL to an individual media stream of the CALL, providing
6 the SBM with call level information to allow the SBM to associate the individual media
7 stream of the CALL with the reserved bandwidth of the CALL, the SBM managing network
8 bandwidth of a local area network (LAN) through which the CALL is conducted.

1 32. (Unchanged) The network as set forth in Claim 31, wherein the network bandwidth
2 reservation service, provides the SBM with call level information to allow the SBM to
3 associate the individual media stream of the CALL with the reserved bandwidth of the
4 CALL.

1 33. (Unchanged) The network as set forth in Claim 30, further comprising:
2 a gateway coupled to the medium;
3 a gatekeeper coupled to the medium; and
4 a router coupled to the medium..